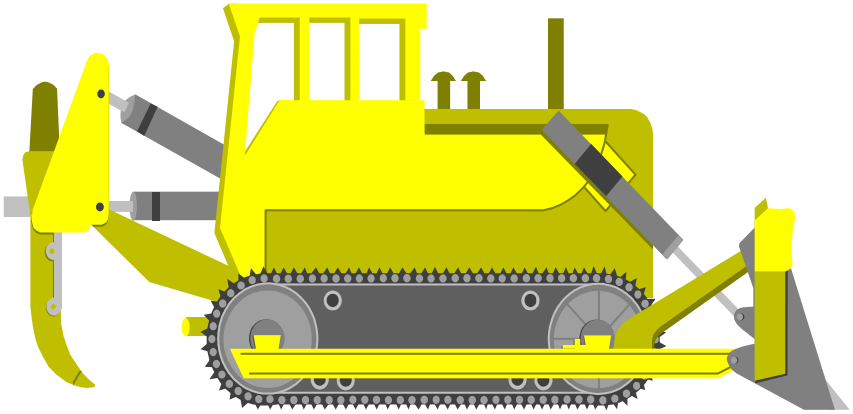
RAILER SMS

M&R Policies and Work Actions

What is a M&R Work Action?

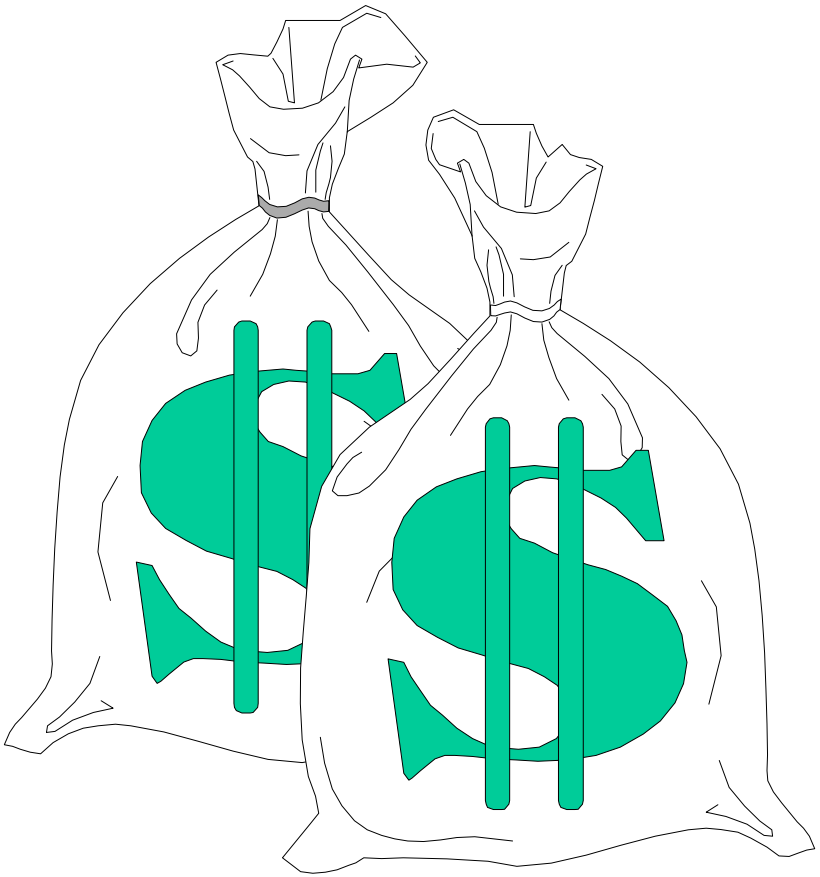


- Desired activities needed to restore or improve track condition.
- Local (LWA)
  - Correct specific defects
- Global (GWA)
  - Apply to entire track segments, turnouts, and/or grade crossings
  - Includes capital improvement and recurring maintenance activities

What is a M&R Policy?

- A set of LWAs.
- Each policy is created by the user to include the desired work actions.
- Multiple policies can be created.
- Each policy has a name that is used for identification.
- GWAs are not clustered into policies because they are individually selected for use.

For What are M&R Work Actions and Policies Used?

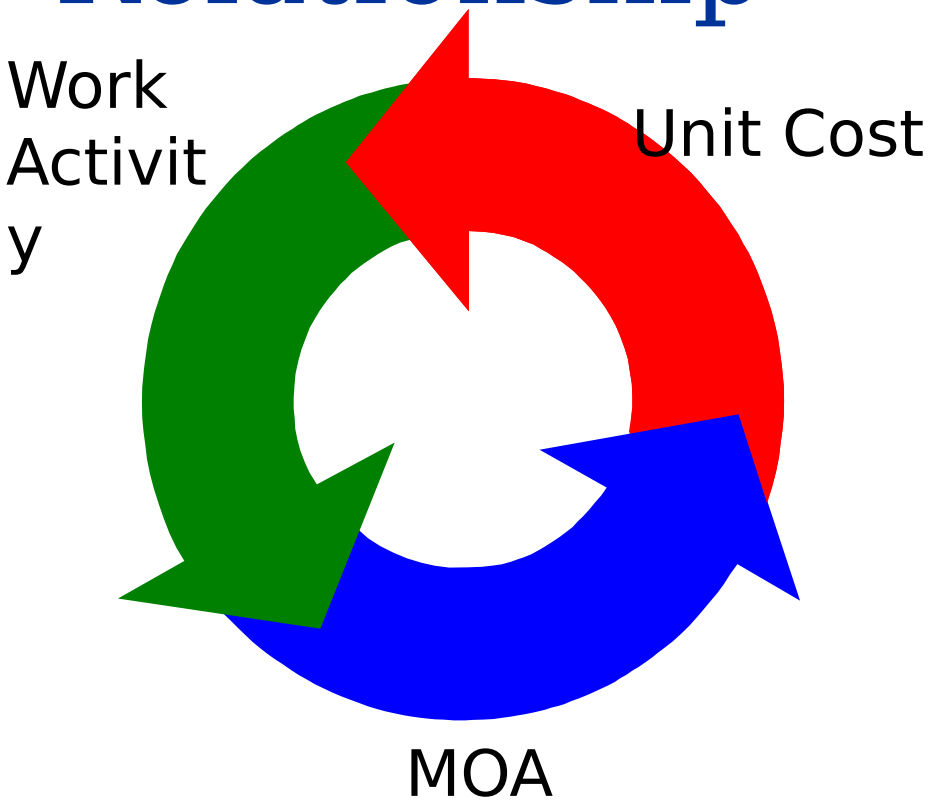


- Creating M&R projects
- Developing M&R plans
- Estimating M&R budgets

Things to Know….

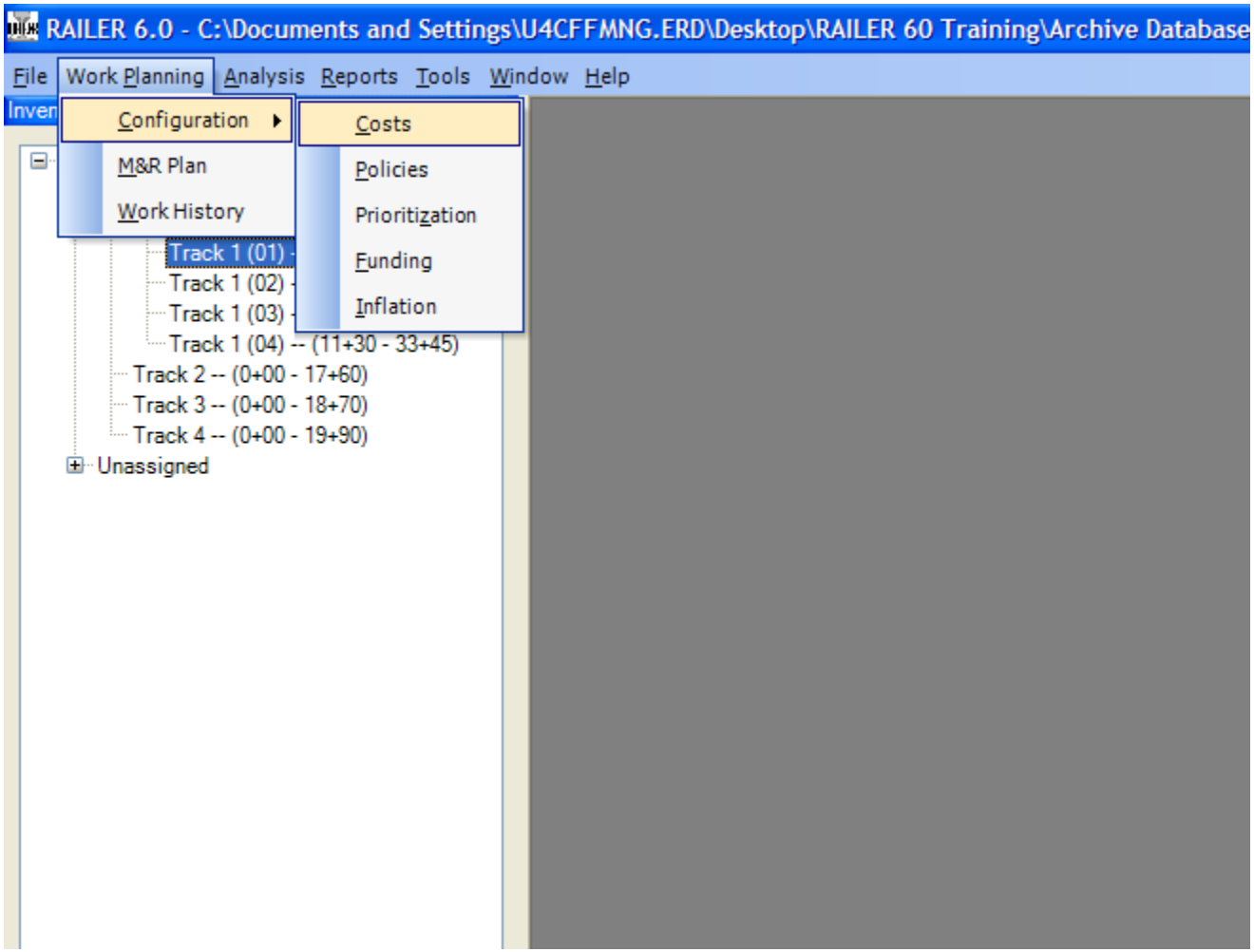
- Work actions and policies are the choice of the user.
- User needs to think about what should be done to correct given track defects and what kind of capital improvements are desired.
- RAILER provides a large set of work actions from which to choose.
- Example set provided with RAILER install.
- “Do Nothing” is a valid work action.
- Having no work action defined for track defects is allowed.
- The work action unit of measure (UM) is the same UM as the track defect.

Work Activity / Unit Cost / Method of Accomplishment Relationship

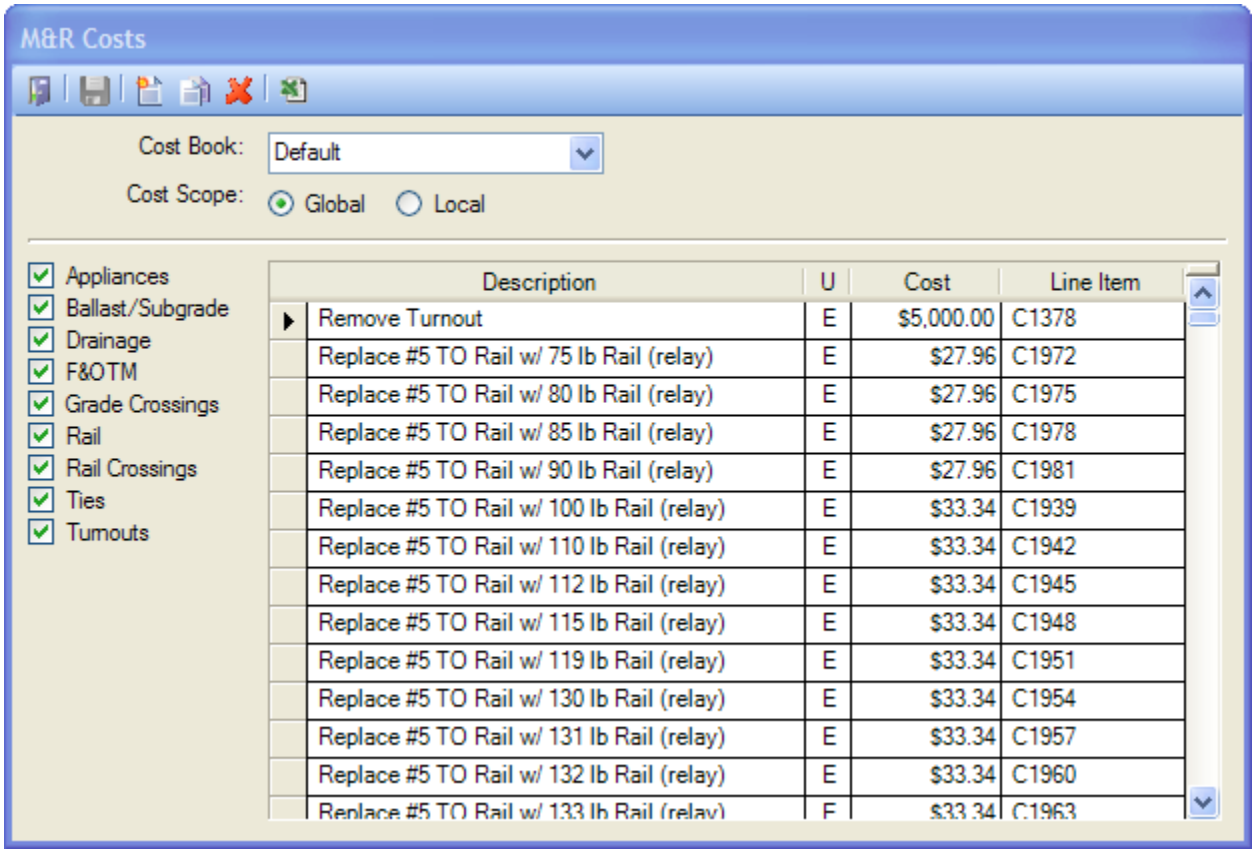


- For a work activity to be used, a unit cost must be established.
- Unit cost is a function of the method of accomplishment (MOA).
- Multiple MOAs with related unit costs possible.
- If no unit cost is established for a LWA or GWA, then those work actions cannot be used later for M&R planning.
- Example set provided with RAILER.

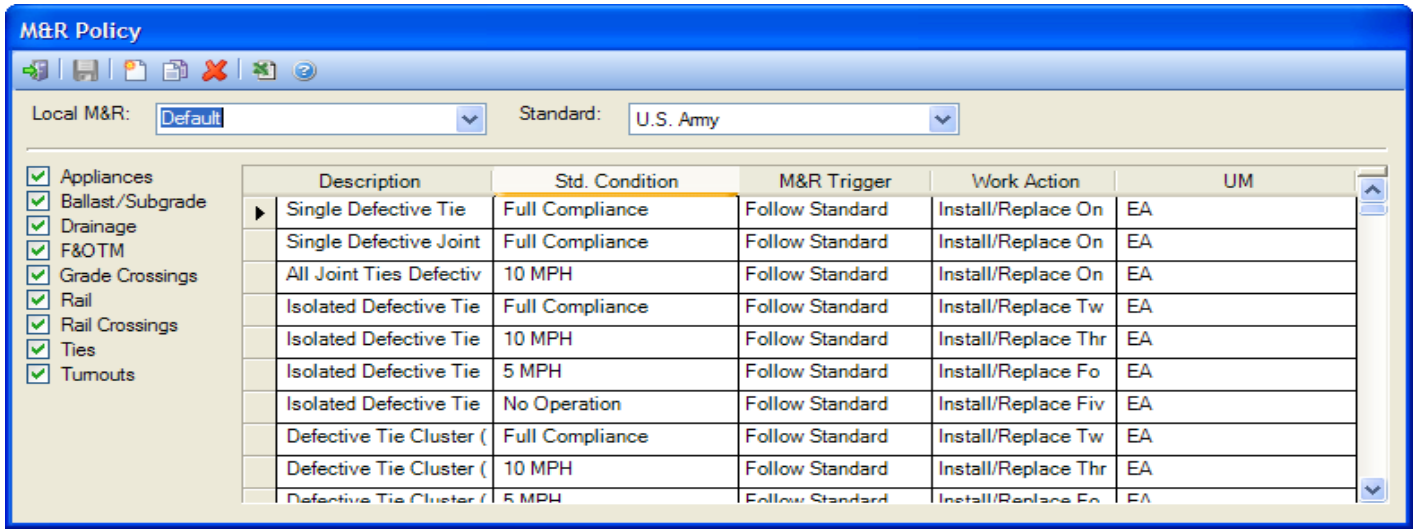
RAILER Desktop



Cost Book Creation

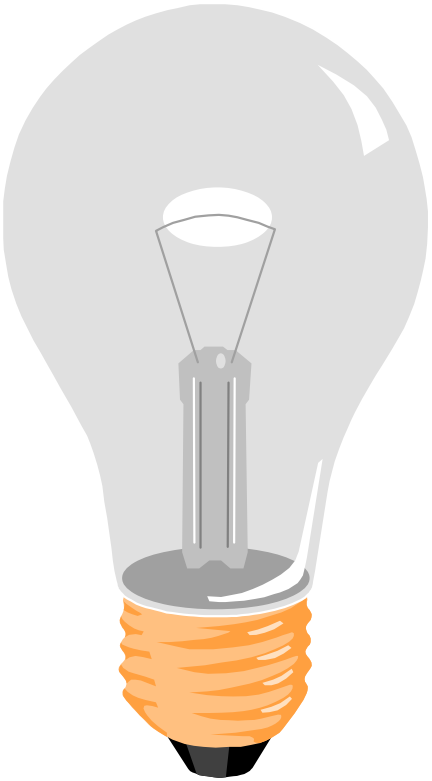

M&R Costs
Cost Book: Default
Cost Scope: Global Local
Appliances
Ballast/Subgrade
Drainage
F&OTM
Grade Crossings
Rail
Rail Crossings
Ties
Tumouts
Description U Cost Line Item
Remove Turnout E $5,000.00 C1378
Replace #5 TO Rail w/ 75 lb Rail (relay) E $27.96 C1972
Replace #5 TO Rail w/ 80 lb Rail (relay) E $27.96 C1975
Replace #5 TO Rail w/ 85 lb Rail (relay) E $27.96 C1978
Replace #5 TO Rail w/ 90 lb Rail (relay) E $27.96 C1981
Replace #5 TO Rail w/ 100 lb Rail (relay) E $33.34 C1939
Replace #5 TO Rail w/ 110 lb Rail (relay) E $33.34 C1942
Replace #5 TO Rail w/ 112 lb Rail (relay) E $33.34 C1945
Replace #5 TO Rail w/ 115 lb Rail (relay) E $33.34 C1948
Replace #5 TO Rail w/ 119 lb Rail (relay) E $33.34 C1951
Replace #5 TO Rail w/ 130 lb Rail (relay) E $33.34 C1954
Replace #5 TO Rail w/ 131 lb Rail (relay) E $33.34 C1957
Replace #5 TO Rail w/ 132 lb Rail (relay) E $33.34 C1960
Replace #5 TO Rail w/ 133 lb Rail (relay) E $33.34 C1963

Policy Creation



Note: The M&R Trigger allows you select/deselect defects for inclusion in the M&R plan. The default is to use the track standard level to trigger the defect for inclusion. A given defect may or may not be planned for repair, however, because “Do Nothing” and no work actions are permitted.

Additional Issues



- Policies and unit costs can be imported and exported to and from different databases.
- GWAs can be combined in a given M&R project.
- GWA quantities and are determined by the inventory quantities and will automatically adjust, as appropriate, for turnouts, grade crossings, and bridges.
- RAILER will ignore certain LWAs if certain GWAs are selected.
- Refer to RAILER Help, Appendix A, for more details.

Key Points to Remember

- M&R work actions, unit costs, MOAs, and M&R triggers are required for M&R planning and budgeting.
- Example work actions, unit costs, and MOAs are provided for your use, but they should be edited or new ones created to meet your specific situation.
- A M&R policy is a set of LWAs and M&R triggers.
- LWAs and unit costs correct individual track defects.

Key Points to Remember (con't)

- M&R Triggers determine which defects to correct.
- If a LWA has a zero unit cost (except for "Do Nothing"), RAILER will not include it as a choice when creating the policy set.
- GWAs and unit costs are applied to entire track segments, turnouts, or grade crossings, as applicable.
- The same GWAs are applied separately to track segments and turnouts.

Key Points to Remember (con't)

- If no unit cost is entered for a GWA, the GWA will not be available for use in the M&R plan.
- To avoid duplication of M&R project costs, RAILER will ignore certain LWAs if certain GWAs are chosen.
- Unit costs and policies can be exported and imported from database to database.
- Refer to the RAILER Help, Appendix A, for details.

Questions?